

Amendments to the Claims

This listing of claims replaces the previous claim listing.

Listing of Claims:

Claim 1 (currently amended): A shaft-hub connection for transmitting a torque comprising:

a shaft having an axial direction;

a hub; and

at least one driving element for aiding in transmitting the torque between the shaft and the hub;

a minimized contact surface ~~being~~ minimized in the axial direction between at least one of: the shaft and the hub; the shaft and the driving element; and the hub and the driving element, to permit tilting of the hub with respect to the shaft in the axial direction.

Claim 2 (original): The shaft-hub connection as recited in claim 1 wherein at least one force-transmitting element selected from the shaft, hub and at least one driving element has the minimized contact surface, the minimized contact surface being convexly curved.

Claim 3 (original): The shaft-hub connection as recited in claim 1 wherein the shaft is convexly shaped on an outside circumference in an area of the hub or is relieved by two chamfers on the outside circumference.

Claim 4 (original): The shaft-hub connection as recited in claim 1 wherein the hub is convexly shaped on an inside circumference or is relieved by two chamfers on the inside circumference.

Claim 5 (original): The shaft-hub connection as recited in claim 1 wherein the shaft has a shaft groove and the hub has a hub groove, the driving element being located between the shaft and the hub partly in the shaft groove and partly in the hub groove, the shaft groove and the hub groove extending axially, the driving element being a circular cylinder, and the shaft groove being

convexly shaped at least in an area against which the driving element bears during torque transmission.

Claim 6 (original): The shaft-hub connection as recited in claim 5 wherein the contact surface between the shaft groove and the driving element is virtually centered.

Claim 7 (original): The shaft-hub connection as recited in claim 5 wherein the shaft groove has a groove base from where two groove walls start, the groove walls and the groove base of the shaft groove being convexly shaped in the area against which the driving element bears.

Claim 8 (original): The shaft-hub connection as recited in claim 1 wherein the shaft has a shaft groove and the hub has a hub groove, the driving element being located between the shaft and the hub partly in the shaft groove and partly in the hub groove, the shaft groove and the hub groove extending axially and each of the hub groove and the shaft groove having a groove base from where two groove walls start, the driving element being a circular cylinder with a convexly shaped lateral surface.

Claim 9 (original): The shaft-hub connection as recited in claim 1 wherein the shaft has a shaft groove and the hub has a hub groove, the driving element being located between the shaft and the hub partly in the shaft groove and partly in the hub groove, the shaft groove and the hub groove extending axially, the driving element being a circular cylinder and the hub groove being convexly shaped in an area against which the driving element bears.

Claim 10 (original): The shaft-hub connection as recited in claim 9 wherein the contact surface between the hub groove and the driving element is virtually centered.

Claim 11 (original): The shaft-hub connection as recited in claim 9 wherein the hub groove has in each case a groove base from where two groove walls start, the groove base and the groove walls of the hub groove being convexly shaped in the area against which the driving element bears.

Claim 12 (original): The shaft-hub connection as recited in claim 1 wherein the shaft has a shaft groove and the hub has a hub groove, the driving element being located between the shaft and the hub partly in the shaft groove and partly in the hub groove, and the driving element has the shape of a sphere.

Claim 13 (previously presented): The shaft-hub connection as recited in claim 12 wherein in cross section the hub groove and the shaft groove form a semicircle, with ends of the semicircle of the shaft groove or the hub groove changing tangentially to a straight line or a circular arc with an increasing radius.

Claim 14 (previously presented): The shaft-hub connection as recited in claim 12 wherein the hub groove or the shaft groove have a trapezoidal cross section.

Claim 15 (previously presented): The shaft-hub connection as recited in claim 9 wherein in cross section the hub groove and the shaft groove form a semicircle, with ends of the semicircle of the shaft groove or the hub groove changing tangentially to a straight line or a circular arc with an increasing radius.

Claim 16 (previously presented): The shaft-hub connection as recited in claim 9 wherein the hub groove or the shaft groove have a trapezoidal cross section.

Claim 17 (previously presented): The shaft-hub connection as recited in claim 8 wherein in cross section the hub groove and the shaft groove form a semicircle, with ends of the semicircle of the shaft groove or the hub groove changing tangentially to a straight line or a circular arc with an increasing radius.

Claim 18 (previously presented): The shaft-hub connection as recited in claim 8 wherein the hub groove or the shaft groove have a trapezoidal cross section.

Claim 19 (previously presented): The shaft-hub connection as recited in claim 5 wherein in cross section the hub groove and the shaft groove form a semicircle, with ends of the semicircle of the

shaft groove or the hub groove changing tangentially to a straight line or a circular arc with an increasing radius.

Claim 20 (previously presented): The shaft-hub connection as recited in claim 5 wherein the hub groove or the shaft groove have a trapezoidal cross section.

Claim 21 (withdrawn): The shaft-hub connection as recited in claim 1 wherein the driving element includes a lug whose extent in the axial direction of the shaft is small in relation to the extent of the hub in the same direction.

Claim 22 (withdrawn): The shaft-hub connection as recited in claim 21 wherein the driving element includes a ring-shaped insert, the ring shaped insert having the lug and at least one second lug engaging a support formed on the shaft, and the lug engaging a support formed on the hub.

Claim 23 (withdrawn): A pump or fluid-driven motor comprising a shaft-hub connection as recited in claim 1.

Claim 24 (withdrawn): The pump as recited in claim 23 wherein the pump or fluid-driven motor is a vane-type pump or motor, gear pump or motor, or roller-vane pump or motor.

Claim 25 (canceled).

Claim 26 (canceled).

Claim 27 (canceled).

Claim 28 (canceled).